

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
**WO 2004/113591 A1**

(51) International Patent Classification<sup>7</sup>: **C25B 9/00**

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(21) International Application Number:  
PCT/KR2004/001540

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(22) International Filing Date: 25 June 2004 (25.06.2004)

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:  
10-2003-0041566 25 June 2003 (25.06.2003) KR

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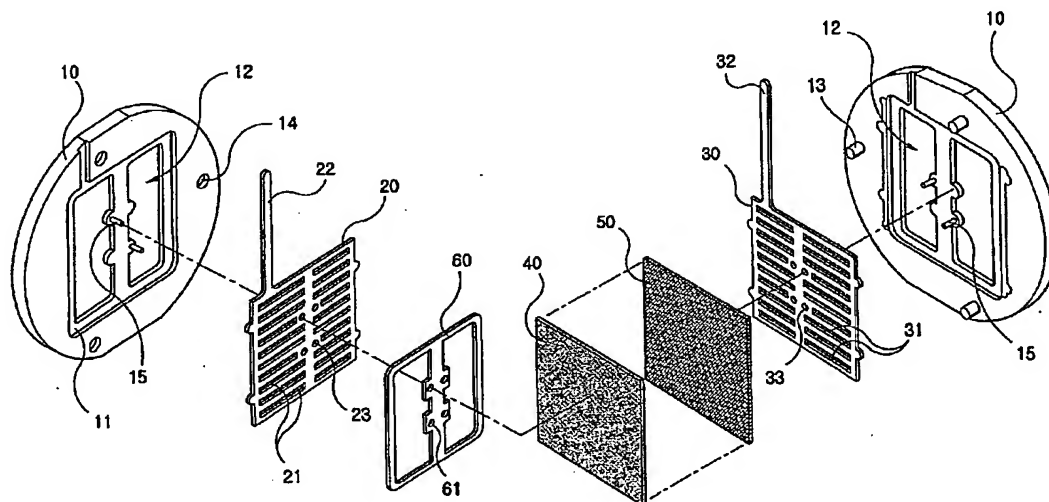
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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[Continued on next page]

(54) Title: AN APPARATUS FOR PRODUCING OZONE BY ELECTROLYSIS



(57) Abstract: The present invention discloses an apparatus for producing ozone by electrolysis of water. The apparatus comprises a pair of frames facing each other, and an anode and a cathode oppositely arranged between the two pieces of frames. Between the anode and the cathode is provided a solid polymer electrolyte membrane for transferring hydrogen ions formed during electrolysis. In addition, an auxiliary electrode is provided between the cathode and the solid polymer electrolyte membrane such that a scale can be formed on the surface of the auxiliary electrode. A spacer 60 is inserted between the anode and the cathode. Tap water as well as pure water and cation-exchanged water can be used as a raw material water to produce high-concentration ozone water. A uniformity of pressure between the electrodes and the solid polymer electrolyte membrane can be achieved, thereby providing for a stable operation.



**Published:**

— with international search report

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